

BUDGET ITEM JUSTIFICATION SHEET (P-40) FY2005 President's Budget Estimates										DATE: February 2004	
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM NOMENCLATURE				
BA #2 OTHER WARSHIPS							CARRIER REPLACEMENT PROGRAM BLI: 200100				
	PRIOR YEARS	FY 2003	FY 2004	FY2005	FY2006	FY2007	FY2008	FY2009	TO COMPLETE	TOTAL PROGRAM	
QUANTITY	9		-	-	-	1			TBD	9	
End Cost	26,156.1	0.0	0.0	0.0	0.0	8,604.6	0.0	0.0	TBD	34,760.7	
Less Advance Procurement	2,821.3	0.0	0.0	0.0	0.0	2,967.7	0.0	0.0	TBD	5,789.0	
Less Cost to Complete	0.0	0.0	0.0	0.0	0.0	2,830.1	0.0	0.0	TBD	2,830.1	
Less Escalation	66.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TBD	66.4	
Less Transfer	1,279.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,279.0	
Less Subsequent Year FF	88.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.2	
Subsequent Year FF	0.0	88.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.2	
Full Funding TOA	21,901.2	0.0	0.0	0.0	0.0	2,806.8	2,830.1	0.0	0.0	27,538.1	
Plus Advance Procurement	2,821.3	395.5	1,177.2	626.1	611.9	162.1	420.8	1,568.6	TBD	7,783.5	
Total Obligational Authority	24,722.5	483.7	1,177.2	626.1	611.9	2,968.9	3,250.9	1,568.6	TBD	35,409.8	
Plus Outfitting and Post Delivery	0.0	50.8	3.0	15.0	38.4	6.7	68.1	24.5	0.0	206.5	
Plus Escalation	66.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	TBD	66.4	
Total	24,788.9	534.5	1,180.2	641.1	650.3	2,975.6	3,319.0	1,593.1	TBD	35,682.7	
Unit Cost (Ave. End Cost)	2,906.2		0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,862.3	

Mission: To support and operate aircraft to engage in attacks on targets afloat and ashore which threaten our use of the sea and to engage in sustained operations in support of other forces.

**Characteristics:**

**Hull:**

Length overall: 1092'

Beam: 134'

Displacement: 97,337 Tons

Draft: 38.7'

**CVN 77: SUBHD 6210**

**Major Electronics:**

Radio Communication System

Ship Self Defense System

CATCC DAIR (TPX 42)

A/N SPN 41 ILS

A/N SPN 46 Aircraft Landing Radar

Carrier Intelligence Center

CEC (AN/USG-2)

SPS-48E

SPS-49A

NSWPC

RAM - Rolling Airframe Missile

JFN

**Armament:**

SPQ-9 (B)

NSSM

RAM

CV-TSC

**Production Status:**

Contract Award Planned

Months to Complete

a) Award to Delivery

b) Construction Start to Delivery

Completion of Fitting Out

Obligation Work Limiting Date (OWLD)

Original

Jan/2001

86 months

AP 26 months plus 86 months

May/2008

Apr/2009

Re-negotiation (planned)

Feb/2004

UNCLASSIFIED  
CLASSIFICATION

P-5 EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

APPROPRIATION: SHIPBUILDING AND WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)  
CONVERSION, NAVY

BUDGET ACTIVITY: 2 OTHER WARSHIPS	P-1 ITEM NOMENCLATURE: CARRIER REPLACEMENT PROGRAM	BLI: 200100
		SUBHEAD: 6210
		FY 2001
		CVN 77
ELEMENT OF COST	QTY	TOT COST
PLAN COSTS	1	0
BASIC CONST/CONVERSION		3,389,764
CHANGE ORDERS		117,085
ELECTRONICS		262,886
PROPULSION EQUIPMENT		695,870
HM&E		37,524
ORDNANCE		216,454
OTHER COST		60,890
ESCALATION		243,271
TOTAL SHIP ESTIMATE		5,023,744
Less: (FY 1998) ADVANCE PROCUREMENT		48,737
Less: (FY 1999) ADVANCE PROCUREMENT		122,897
Less: (FY 2000) ADVANCE PROCUREMENT		747,503
Less: FY 03 SUBSEQUENT FF		88,170
NET P-1 LINE ITEM		4,016,437

P5 the 01

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Basic/Escalation  
Ship Type: CVN 68 Class

P-5B  
FY2005 President's  
Budget Estimates  
February 2004

	<u>Start/Issue</u>	<u>Complete/Response</u>
<u>I. Design Schedule</u>		
Issue date for TLR	July 94	
Issue date for TLS	N/A	N/A
Preliminary Design	N/A	N/A
Contract Design	Oct 97	Jan 01
Request for Proposals	May 00	Aug 00
Design Agent	Newport News Shipbuilding	

II. Classification of Cost Estimate      Class C

<u>III. Basic Construction/Conversion</u>	<u>FY2001</u>
A. Actual Award Date	26 January 2001
B. Contract Type (and Share Line if applicable)	FPIF (Ship Detail Design and Construction) CPAF ( Warfare System Contract Line Item)

<u>IV. Escalation</u>	
Escalation Termination Date	Nov-08
Escalation Requirement (with FCOM)	243,271
Labor/Material Split	63.5% /36.5%
Allowable Overhead Rate	95%

V. Other Basic (Reserves/Miscellaneous)      Amount  
None

UNCLASSIFIED  
CLASSIFICATION

SHIPBUILDING AND CONVERSION, NAVY  
SHIP PRODUCTION SCHEDULE

EXHIBIT P-27  
FY2005 President's  
Budget Estimates  
February 2004

SHIP TYPE	SHIPBUILDER	FISCAL YEAR AUTHORIZED	CONTRACT AWARD	START OF CONSTRUCTION	DELIVERY DATE
CVN 77	NEWPORT NEWS	2001	Jan-01	Sep-98	Mar-08

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type: CVN-77	( 1 ) FY01	
	<u>TOT COST</u>	
ELECTRICAL EQUIPMENT		
a. P-35 Items		
(AN/SPN-41) Instrument Landing System		3,370
AN/SLQ-32(V)4		6,858
AN/SPN-46		8,794
AN/UPX-29 (IFF)		6,025
Battle Force Tactical Training System (BFTT)		6,157
Common Data Link-Navy (CDL-N)		7,752
Cooperative Engagement Capability (CEC)		6,815
Digital Modular Radio UHF/VHF LOS SATCOM		12,225
GCCS-M		17,333
High Frequency Radio Group (HFRG)		5,540
ISNS		11,233
JFN		22,467
Ship Signal Exploitation Equipment SSEE		5,117
Radio Communications System (RCS)		23,282
Radio Room Automation		15,200
Ship Self Defense System (SSDS)		51,588
Subtotal		209,756
b. Major Items		
AN/SMQ-11A(V)2 METOC		1,420
AN/SPN-43C		2,405
AN/USQ-155(V)1		1,664
Automated Digital Network Sys (ADNS USQ-144E(V)2)		1,077
CDLMS (UYQ-86 (V) 3		1,999
EHF FOT (USC 38)		2,288
INFOSEC		1,535
MCCP		2,425
MIDS on Ship (MOS) URC-141C		2,412
Naval Tactical Command Support System (NTCSS)		2,251
NAVSSI (AN/SSN 6)		3,153
NIXIE (AN/SLQ-25A Dual) Surface Ship Torpedo Defense System		1,996
Publications		1,601
SIOC		6,355
SHF Multi-band Terminal (AN/WCS-6(V)7)		2,837
Ship Signal Exploit System SSES/SI COMMS		2,872
Ship Test Programs		2,788
Subtotal		41,078
c. Miscellaneous Electronics		12,052
	1-5	
TOTAL ELECTRONICS		262,886

UNCLASSIFIED  
CLASSIFICATION

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

P-8A EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

Ship Type: CVN-77

( 1 )  
FY01  
TOT COST

HULL, MECHANICAL & ELECTRICAL

a. P-35 Items

0

Subtotal

b. Major Items

Composite Mast	4,250
Damage Control System	1,545
Digital Dead Reckoning Tracker (CADRT)	685
DSVL	985
ENVIRON EQPT (WASTE MGMT)	2,544
HM&E Engineering Services	2,681
ILS Support	3,576
ICAN	3,300
LIFERAFTS	1,896
Nuclear Plant Handling	1,179
Ring Laser Gyro	2,927
SUPSHIP Material & GFE	4,250
Test and Integration	2,596
TRUCKS (Forklifts)	2,342

Subtotal

34,756

Miscellaneous HM&E

2,768

TOTAL HULL, MECHANICAL & ELECTRICAL

37,524

UNCLASSIFIED  
CLASSIFICATION

P-8A EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

Ship Type: CVN-77

( 1 )  
FY01  
TOT COST

OTHER

a. Major Items

BERTHING & MESSING

8,306

COMMISSIONING

765

CONTRACT ENGINEERING SERVICES

11,006

IN-HOUSE ENGINEERING SERVICES

13,606

MANAGEMENT SUPPORT SERVICES

26,665

PLANNED MAINTENANCE

542

TOTAL OTHER

60,890

UNCLASSIFIED  
CLASSIFICATION

SHIPBUILDING AND CONVERSION, NAVY  
Analysis of Ship Cost Estimates - Major Equipment  
(Dollars in Thousands)

P-8A EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

Ship Type: CVN-77

( 1 )  
FY01  
TOT COST

ORDNANCE

a. P-35 Items

AIRCRAFT LAUNCH SYSTEM (CATAPULT EQPT)	25,177
AIRCRAFT RECOVERY SYSTEM (ARRESTING GEAR)	13,600
AN/SPQ-9(B)	9,710
AN/SPS-48E	13,335
AN/SPS-49A(V)2	9,289
ASDS SPQ-14 (Adv Sensor Distribution System)	3,314
AVIATION DATA MANAGEMENT CONTROL SYSTEM	3,583
CATCC DAIR (TPX-42A)	4,419
CVIC	4,700
CV-TSC (Carrier Tactical Support Center)	12,311
IFOLS	4,854
INTEGRATED WARFARE COMMANDERS CELL	5,877
MULTI-MODAL WORKSTATION (MMWS)	10,050
NAVAL STRIKE WARFARE PLANNING CENTER	26,968
NSSM (Nato Seasparrow)	28,430
RAM	13,087
Visual (Heads Up Display)	2,362
Subtotal	<u>191,066</u>

b. Major Items

AN/SPS-67(V)1	1,222
AVIATION MAINT FAC	1,345
ILARTS (Integrated Launch & Recovery Television System)	2,996
JBD (Jet Blast Deflector)	361
MORIAH	1,067
SATCC	1,551
TIS & AIT	7,310
TOTAL SHIP TEST	2,401
VLA [Visual Landing Aids]	2,418
Subtotal	<u>20,671</u>

c. Miscellaneous Ordnance

4,717

TOTAL ORDNANCE

216,454



SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

Ship Type: CARRIER REPLACEMENT PROGRAM  
Equipment Line: Aircraft Launch System (Catapult Equipment)  
Parm Code - NAVAIR PMA 251

P-35 EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: With few exceptions, the launching of an aircraft from the flight deck of an aircraft carrier requires that power, in addition to the aircraft's engines, be supplied during the take-off run in order to accelerate the aircraft to the necessary flying speed in the limited deck run available. This additional power is supplied by a catapult. The catapult consists of five major components: the engine and its control system, the shuttle, the tensioner, the holdback attachment point on the deck, and the retracting system. A direct-drive, steam-type catapult is used on all carriers.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	17,221
2. Technical Data and Documentation	486
3. Spares	95
4. Tech Engineering Services	4,276
5. Other Costs	3,099
TOTAL	<u>25,177</u>

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
		NAWC AD				
FY 01	CVN	St. Indigos	TBD	1	17,221	TBD

IV. DELIVERY DATA:

EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
Mar 08	TBD	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

P-35 EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

Ship Type: CARRIER REPLACEMENT PROGRAM  
Equipment Line: Aircraft Recovery System (Arresting Gear)  
Parm Code - NAVAIR PMA 251

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The Mark 7 arresting gear is a linear hydraulic system which consists of three modules: the engine, the sheave damper, and the anchor damper. The Mark 7 arresting gear system provides for the successful recovery of aircraft onboard an aircraft carrier.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	9,536
2. Spares	230
3. Tech Engineering Services	3,703
4. Other Costs	131
TOTAL	<u>13,600</u>

III. CONTRACT DATA:

<u>PROGRAM</u> <u>YEAR</u>	<u>PRIME</u> <u>SHIP TYPE</u>	<u>CONTRACT</u> <u>CONTRACTOR</u>	<u>TYPE</u>	<u>QTY</u>	<u>HARDWARE</u> <u>UNIT COST</u>	<u>CONTRACT</u> <u>AWARD DATE</u>
FY 01	CVN	NAVAIR LAKEHURST	TBD	1	9,536	TBD

IV. DELIVERY DATA:

<u>EARLIEST SHIP</u> <u>DELIVERY DATE</u>	<u>MONTHS REQUIRED</u> <u>BEFORE DELIVERY</u>	<u>PRODUCTION</u> <u>LEAD TIME</u>	<u>REQUIRED</u> <u>AWARD DATE</u>
Aug 05	1 mo	TBD	TBD

**SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)**

P-35 EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: AN/SPQ-9B Radar Set  
Parm Code - PEO IWS2

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The AN/SPQ-9B is a high resolution X-band narrow beam radar that provides both air and surface tracking information to standard plan position indicator consoles.

**II. CURRENT FUNDING:**

P-35 Category	<u>FY 2001</u>
1. Major Hardware	5673
2. Spares	667
3. Technical Data and Documentation	69
4. Tech Engineering Services	440
5. Other	2861
<b>TOTAL</b>	<b>9,710</b>

**III. CONTRACT DATA:**

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>NEW CONTRACT OPTION</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY01	CVN	Northrop'Grumman /Norden	FFP	TBD	1	5,673	Dec-03

**IV. DELIVERY DATE:**

<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME</u>	<u>REQUIRED AWARD DATE</u>
MAR 08	2 Months	24 Months	Dec-03

V. Competition/Second Source Initiatives  
None

**SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)**

P-35 EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: AN/SPS-48E  
Parm Code - PEO IWS2

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The AN/SPS-48 Radar is the primary air search radar for the ship. This radar is a 3-D unit capable of providing not only range and bearing, but also altitude.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. MAJOR HARDWARE	6,455
2. Spares	400
3. Tech Data/Documentation	150
3. Tech Engineering Services	2,360
4. Other	3,970
TOTAL	<u>13,335</u>

III. CONTRACT DATA:

<u>PROGRAM</u>		<u>PRIME</u>	<u>CONTRACT</u>	<u>NEW CONTRACT/</u>		<u>HARDWARE</u>	<u>AWARD</u>
<u>YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>DATE</u>
FY 01	CVN	Raytheon	FFP	New	1	6,455	TBD

IV. DELIVERY DATE:

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE SHIP DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
May 05	1 mo	36 mo	TBD

V. COMPETITION/SECOND SOURCE INITIATIVE

None

**SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)**

P-35 EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: AN/SPS-49(V)2  
Parm Code - PEO IWS2

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The AN/SPS-49 Radar is a narrow beam, very long range, two dimensional air search radar. In replacing some older radars which are nearing end of life, the AN/SPS-49 offers greatly improved operational performance, reliability and maintainability.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. MAJOR HARDWARE	6,114
2. Tech Data/Documentation	1,300
3. Tech Engineering Services	1,086
4. Other	789
TOTAL	<u>9,289</u>

III. CONTRACT DATA:

<u>PROGRAM</u>		<u>PRIME</u>	<u>CONTRACT</u>	<u>NEW CONTRACT/</u>		<u>HARDWARE</u>	<u>AWARD</u>
<u>YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>DATE</u>
FY 01	CVN	Raytheon	FFP	New	1	6,114	TBD

IV. DELIVERY DATE:

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE SHIP DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
May 05	1 mo	30 mo	TBD

V. COMPETITION/SECOND SOURCE INITIATIVE

None

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

P-35 EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

Ship Type: CARRIER REPLACEMENT PROGRAM  
Equipment Line: ASDS (SPQ-14)  
Parm Code - PEO IWS 2.0I

**I. DESCRIPTION/CHARACTERISTICS/PURPOSE:**

ASDS (SPQ-14) is an interface to Navy radars and ship navigational sensors. Sensor signals are converted and distributed digitally throughout the platform to various displays, consoles and computers via copper or fiber optic cables.

**II. CURRENT FUNDING:**

P-35 Category		<u>FY 2001</u>
1. Major Hardware		1,278
2. Tech Data/Documentation		93
3. Tech Engineering Services		878
4. Other Costs		<u>1,065</u>
TOTAL		<u>3,314</u>

**III. CONTRACT DATA:**

PROGRAM	PRIME		CONTRACT		HARDWARE	CONTRACT
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN	Frontier Elec	IDIQ	1	1,278	TBD

**IV. DELIVERY DATA:**

EARLIEST SHIP	MONTHS REQUIRED	PRODUCTION	REQUIRED
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
Jun 06	1 mo	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

P-35 EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

Ship Type: CARRIER REPLACEMENT PROGRAM  
Equipment Line: Aviation Data Management and Control System (ADMACS)  
Parm Code - PMA 251

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

ADMACS is a mission critical real time fault tolerant (redundant) tactical information management system focused on air and flight operations and aviation work centers. It automates input, collection, processing distribution and display of data for ALRE programs and distributes this data to other C4I and non ALRE Systems.

II. CURRENT FUNDING:

P-35 Category

FY 2001

1. Major Hardware	600
2. Tech Data/Documentation	150
3. Tech Engineering Services	885
4. Other Costs	<u>1,948</u>
TOTAL	3,583

III. CONTRACT DATA:

<u>PROGRAM</u> <u>YEAR</u>	<u>PRIME</u> <u>SHIP TYPE</u>	<u>CONTRACTOR</u> <u>TYPE</u>	<u>QTY</u>	<u>HARDWARE</u> <u>UNIT COST</u>	<u>CONTRACT</u> <u>AWARD DATE</u>
		NUWC			
FY 01	CVN	Keyport	FFP	1	600
					TBD

IV. DELIVERY DATA:

<u>EARLIEST SHIP</u> <u>DELIVERY DATE</u>	<u>MONTHS REQUIRED</u> <u>BEFORE DELIVERY</u>	<u>PRODUCTION</u> <u>LEAD TIME</u>	<u>REQUIRED</u> <u>AWARD DATE</u>
Jun 06	1 mo	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

P-35 EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: Carrier Air Traffic Control Center (CATCC), (AN/TPX-42A(V)14)  
Parm Code - PMA 213

**I. DESCRIPTION/CHARACTERISTICS/PURPOSE:**

Carrier Air Traffic Control Center: This is an automatic beacon and radar tracking system (IFF) that provides safe air space control of aircraft operations. Also provides processing of radar data for target detection and tracking, processing, and displaying flight plans, reference points, and map lines for easy association with mission operations.

**II. CURRENT FUNDING:**

P-35 Category	<u>FY 2001</u>
1. Major Hardware	2,395
2. Spares	200
3. Tech Engineering Services	931
4. Other Costs	893
TOTAL	<u>4,419</u>

**III. CONTRACT DATA:**

PROGRAM YEAR	PRIME SHIP TYPE	CONTRACT CONTRACTOR TYPE	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY 01	CVN	NAWC AD, TBD	2,395	TBD

**IV. DELIVERY DATA:**

EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
Aug 05	1 mo	TBD	TBD



SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

Ship Type: CARRIER REPLACEMENT PROGRAM  
Equipment Line: Carrier Intelligence Center (CVIC)  
Parm Code - PEO IWS5

P-35 EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: AITs will install several systems in the CVIC space during PSA including parts of the Naval Strike Warfare Planning Center (NSWPC), Joint Fires Network (JFN), Global Command and Control System (GCCS-M) and IT-21 LAN Drops.

II. CURRENT FUNDING:

P-35 Category		<u>FY 2001</u>
1. Major Hardware		0
2. Spares		0
3. Tech Engineering Services		4,700
4. Other Costs		0
TOTAL		<u>4,700</u>

III. CONTRACT DATA:

<u>PROGRAM</u> <u>YEAR</u>	<u>PRIME</u> <u>SHIP TYPE</u>	<u>CONTRACTOR</u> <u>TYPE</u>	<u>QTY</u>	<u>HARDWARE</u> <u>UNIT COST</u>	<u>CONTRACT</u> <u>AWARD DATE</u>
		Lockheed			
FY 01	CVN	Martin	TBD	0	TBD

IV. DELIVERY DATA:

<u>EARLIEST SHIP</u> <u>DELIVERY DATE</u>	<u>MONTHS REQUIRED</u> <u>BEFORE DELIVERY</u>	<u>PRODUCTION</u> <u>LEAD TIME</u>	<u>REQUIRED</u> <u>AWARD DATE</u>
Jun 06	1 mo	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

P-35 EXHIBIT  
FY2005 President's  
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February 2004

Ship Type: CARRIER REPLACEMENT PROGRAM  
Equipment Line: Aircraft Carrier Tactical Support Center (CV-TSC)  
Parm Code - PEO IWS5

**I. DESCRIPTION/CHARACTERISTICS/PURPOSE:**

CV-TSC is the primary source of undersea warfare data gathered from organic and non-organic sources. CV-TSC supports mission planning, in-flight data exchange, pre and post-mission briefing, real-time analysis, and mission reconstruction/evaluation of USW data for tactical support to the operational chain of command.

**II. CURRENT FUNDING:**

P-35 Category	<u>FY 2001</u>
1. Major Hardware	2,464
2. Spares	300
3. Tech Engineering Services	2,365
4. Other Costs	7,182
TOTAL	<u>12,311</u>

**III. CONTRACT DATA:**

PROGRAM YEAR	PRIME SHIP TYPE	CONTRACTOR CONTRACT TYPE	CONTRACT TYPE	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
		NUWC				
FY 01	CVN	Keyport	N/A	1	2,464	N/A

**IV. DELIVERY DATA:**

EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
Jul 06	1 mo	24	MAR 04

SHIPBUILDING AND CONVERSION, NAVY  
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(\$000)

P-35  
FY2005 President's  
Budget Estimates  
February 2004

Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: Improved Fresnel Lens Optical Landing System (IFLOLS)  
Parm Code - PMA 251

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The IFLOLS is the primary Visual Landing Aid displaying glide path and trend information to fixed wing pilots on final approach from 1.5 nautical miles to touchdown on CVN.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2001</u>
1. Major Hardware	2,628
2. Spares	0
3. Tech Engineering Services	1,879
4. Other Costs	347
<b>TOTAL</b>	<b>4,854</b>

**III. CONTRACT DATA:**

PROGRAM		PRIME	CONTRACT NEW CONTRACT		HARDWARE	AWARD	
<u>YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>DATE</u>
FY01	CVN	Raytheon	TBD	TBD	1	2,628	TBD

**IV. DELIVERY DATA:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE SHIP DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
May 06	1 mo	TBD	TBD

**V. COMPETITION/SECOND SOURCE INITIATIVE:**

None

SHIPBUILDING AND CONVERSION, NAVY  
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(\$000)

P-35  
FY2005 President's  
Budget Estimates  
February 2004

Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: Integrated Warfare Commander's Cell (IWCC)  
Parm Code - PEO IWS 5B

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The IWCC provides all mission planning, tactical coordination and control capabilities required by the embarked USW/SUW warfare commander. IWCC supports the warfare commander and his staff in the roles of: sea combat commander/surface warfare commander, screen commander, undersea warfare commander, maritime interdiction operations commander, helicopter element coordinator commander mine warfare commander, and force protection commander.

**II. CURRENT FUNDING:**

<u>P-35 Category</u>	<u>FY 2001</u>
1. Major Hardware	1,220
2. Spares	100
3. Tech Engineering Services	1,239
4. Other Costs	3,318
TOTAL	<u>5,877</u>

**III. CONTRACT DATA:**

PROGRAM		PRIME	CONTRACT NEW CONTRACT			HARDWARE	AWARD
<u>YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>DATE</u>
FY01	CVN	NUWC Keyport	N/A	N/A	1	1,220	N/A

**IV. DELIVERY DATA:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE SHIP DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
MAR 08	TBD	TBD	TBD

**V. COMPETITION/SECOND SOURCE INITIATIVE:**

None

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(\$000)

P-35 EXHIBIT  
FY2005 President's  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: JFN  
Parm Code - PMA 213

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The Joint Fires Network (JFN) Tactical Exploitation System - Naval (TES-N) is transformational technology providing Multi-INT Real-Time sensor downlink from numerous National, Theater and Tactical sensor platforms, including National Imagery, National SIGINT, U-2, GLOBAL HAWK, P-3 Video, JSTARS and others, with the ability to dynamically re-task several sensors in flight. JFN will be installed in CVIC with integration/interface into the Naval Strike Warfare Planning Center (NSWPC) system of systems.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	9,058
2. Spares	1,440
3. Tech Engineering Services	3,819
4. Other Costs	<u>8,150</u>
TOTAL	22,467

III. CONTRACT DATA:

PROGRAM YEAR	PRIME SHIP TYPE	CONTRACTOR	CONTRACT TYPE	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY 01	CVN	Northrup Grumman	Classific	1	9,058	2nd qtr FY04

IV. DELIVERY DATA:

EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
Jan 06	1 mo	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

P-35 EXHIBIT  
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Budget Estimates  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: Multi-Modal Workstation (MMWS)  
Parm Code - IWS

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: Multi-Modal Work Station (MMWS) is the next generation display workstation that will be capable of scaleable multi-purpose and/or multi-modal operations including: Integration and simultaneous display of distributed sensor, video, audio and data; reconfigurable screens tailored to mission(s) and/or operator(s); reduced complexity of human-system interfaces (HSI) and utilizing all senses; touch screens, smart cards, and other HSI advances.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	2,700
2. System Engineering	0
3. Tech Engineering Services	7,350
4. Other Costs	0
TOTAL	<u>10,050</u>

III. CONTRACT DATA:

PROGRAM YEAR	PRIME SHIP TYPE	CONTRACTOR CONTRACT TYPE	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY 01	CVN	NAWC AD PO St. Indigoes	2,700	JAN 04

IV. DELIVERY DATA:

EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
MAR 08	TBD	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
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(\$000)

P-35 EXHIBIT  
FY2005 President's  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: REARCHITECTURED NATO SEASPARROW  
Parm Code - PEO IWS 3D

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The Rearch NATO SEASPARROW Surface Missile System consists of a guided missile fire control system containing a power driven illuminator with bore-sight television, below deck control, and a digital computation, lightweight/low silhouette, cell-type launcher in an 8 cell configuration. Directors will incorporate a transmitter enhancement. System will provide for cross launcher assignments.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	15,397
2. Spares	1,124
3. Tech Engineering Services	4,119
4. Other Costs	<u>7,790</u>
TOTAL	28,430

III. CONTRACT DATA:

PROGRAM <u>YEAR</u>	SHIP TYPE <u>SHIP TYPE</u>	PRIME <u>CONTRACTOR</u>	CONTRACT <u>TYPE</u>	NEW CONTRACT/ <u>OPTION</u>	<u>QTY</u>	HARDWARE <u>UNIT COST</u>	CONTRACT <u>AWARD DATE</u>
FY 01	CVN	Raytheon	FFP	TBD	1	15,397	Jan-04

\*Rearch award; \*\* Transmitter award

IV. DELIVERY DATA:

<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE DELIVERY</u>	<u>PRODUCTION LEAD TIME</u>	<u>REQUIRED AWARD DATE</u>
Feb 06	1 mo	18 mo	TBD

V. COMPETITION/SECOND SOURCE INITIATIVES:

None

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

P-35 EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: NSWPC  
Parm Code - PMA 281

**I. DESCRIPTION/CHARACTERISTICS/PURPOSE:**

The Naval Strike Warfare Planning Center (NSWPC) is a collection of interfaced and integrated systems that together provide the following functions:  
Intelligence information processing, Strike Planning and Debrief/reporting

**II. CURRENT FUNDING:**

P-35 Category	<u>FY 2001</u>
1. Major Hardware	7,699
2. Tech Engineering Services	15,072
4. Other Costs	<u>4,197</u>
TOTAL	26,968

**III. CONTRACT DATA:**

PROGRAM	PRIME		CONTRACT		HARDWARE	CONTRACT
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
		Northrop				
FY 01	CVN	Grumman IT	TBD	1	7,699	TBD

**IV. DELIVERY DATA:**

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
Jun 07	01 mo	TBD	TBD



SHIPBUILDING AND CONVERSION, NAVY  
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(\$000)

P-35 EXHIBIT  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: MK49 GMLS w/HAS  
Parm Code - PEO IWS 3B1C

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The RAM Guided Missile Weapon System is a short-range, fast-reaction, high firepower, lightweight, missile weapon system designed to engage and destroy incoming anti-ship cruise missiles that use active radar guidance.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1 Major Hardware	7,333
2. Spares	130
3. Tech Engineering Services	2,490
4. Other Costs	<u>3,134</u>
TOTAL	13,087

III. CONTRACT DATA:

<u>PROGRAM</u>		<u>PRIME</u>	<u>CONTRACT NEW CONTRACT/</u>			<u>HARDWARE</u>	<u>AWARD</u>
<u>YEAR</u>	<u>SHIPTYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>DATE</u>
FY01	CVN	Raytheon	FFP	N/A	2	3,667	Dec-02

IV. DELIVERY DATE:

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE SHIP DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
Feb 06	01 mo	24 Mos.	N/A

V. Competition/Second Source Initiatives  
None

SHIPBUILDING AND CONVERSION, NAVY  
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(\$000)

P-35 EXHIBIT  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: Virtual Imaging System for Approach and Landing (Visual)  
Parm Code - PMA 251

**I. DESCRIPTION/CHARACTERISTICS/PURPOSE:**

Provides the Landing Signal Officer (LSO) and other decision makers, enhanced images of the aircraft in low visibility and night conditions.

**II. CURRENT FUNDING:**

P-35 Category	<u>FY 2001</u>
1. Major Hardware	1,039
2. Spares	53
3. Tech Engineering Services	1,176
4. Other Costs	94
TOTAL	<u>2,362</u>

**III. CONTRACT DATA:**

PROGRAM YEAR	PRIME SHIP TYPE	CONTRACT CONTRACTOR	TYPE	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY 01	CVN	TBD	TBD	1	1,039	FY05

**IV. DELIVERY DATA:**

EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
Sep 06	04 mo	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
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(\$000)

P-35 EXHIBIT  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: Battle Force Tactical Training (BFTT)  
Parm Code - PEO IWS 1E

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Provides training capabilities for fleet personnel to achieve and maintain combat readiness.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	3,385
2. Spares	150
3. Tech Data/Documentation	500
4. Tech Engineering Services	300
4. Other Costs	<u>1,822</u>
TOTAL	<u>6,157</u>

III. CONTRACT DATA:

PROGRAM YEAR	PRIME SHIP TYPE	CONTRACTOR CONTRACT TYPE	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY 01	CVN	Multiple	TBD	1 3,385	Multiple

IV. DELIVERY DATA:

EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
Jun 06	01 mo	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
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(\$000)

P-35 EXHIBIT  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: CDL-N (AN/USQ-123A)  
Parm Code - PMW 189

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Provides a full duplex, microwave digital data link between shipboard processor and airborne sensor.

II. CURRENT FUNDING:

P-35 Category

FY 2001

1. Major Hardware	3,990
2. Spares	597
3. Tech Engineering Services	0
4. Other Costs	<u>3,165</u>
TOTAL	<u>7,752</u>

III. CONTRACT DATA:

PROGRAM YEAR	PRIME SHIP TYPE	CONTRACTOR CONTRACT TYPE	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY 01	CVN	TBD	TBD	1 3,990	TBD

IV. DELIVERY DATA:

EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
MAR 08	TBD	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
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(\$000)

P-35 EXHIBIT  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: Cooperative Engagement Capability (CEC)  
Parm Code - PEO IWS6A

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: Significantly improve Battle Force Anti-Air Warfare (AAW) capability by coordinating all force AAW sensors into a single real time, fire control quality composite track picture. CEC will distribute sensor measurement data from each Cooperating Unit (CU) to all other CUs. Each CU consists of a Data Distribution System (DDS) and a Cooperative Engagement Processor (CEP). The DDS encodes and distributes ownship sensor and engagement data to other CUs, and receives and decodes the remotes data. The CEP processes ownship data and DDS supplied remote sensor and weapon data needed to provide the common air picture.

II. CURRENT FUNDING:

<u>P-35 Category</u>	<u>FY 2001</u>
1. Major Hardware	5,571
2. Spares	202
3. Tech Engineering Services	790
4. Other Costs	252
TOTAL	<u>6,815</u>

III. CONTRACT DATA:

PROGRAM		PRIME	CONTRACT	NEW CONTRACT		HARDWARE	AWARD
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>OPTION</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>DATE</u>
FY01	CVN	Raytheon	FFP	N/A	1	5,571	12/03

IV. DELIVERY DATA:

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE SHIP DELIVERY</u>	<u>LEADTIME</u>	<u>AWARD DATE</u>
MAR 08	6 mos.	18 mos.	12/03

V. COMPETITION/SECOND SOURCE INITIATIVE:

None

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(\$000)

P-35 EXHIBIT  
FY2005 President's  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM

Equipment Line: Digital Modular Radio-Ultra High Frequency Satellite Communications (DMR-VHF/UHF LOS/SATCOM)

Parm Code - PMW 179

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Digital, modular, software programmable, multi-channel, multi-function and multi-band (100 KHz - 2 GHz)

II. CURRENT FUNDING:

P-35 Category

FY 2001

1. Major Hardware	11,314
2. Spares	50
2. Tech Data/Documentation	120
3. Tech Engineering Services	150
4. Other Costs	591
TOTAL	<u>12,225</u>

III. CONTRACT DATA:

PROGRAM YEAR	PRIME SHIP TYP	CONTRACTOR	CONTRACT TYPE	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY 01	CVN	SSC San Diego	various	1	11,314	FY03

IV. DELIVERY DATA:

EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
MAR 08	30	12 Months	SEP 03

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

P-35 EXHIBIT  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: Global Command Control System - Maritime (GCCS-M)  
Parm Code -

**I. DESCRIPTION/CHARACTERISTICS/PURPOSE:**

The GCCS-M provides a C4I system that receives, processes, displays and maintains current geo-locational information on friendly, hostile, and neutral land, sea and air forces with intelligence and environmental information.

**II. CURRENT FUNDING:**

P-35 Category	<u>FY 2001</u>
1. Major Hardware	8,713
2. Spares	820
3. Tech Data/Documentation	555
4. Tech Engineering Services	4,138
5. Other Costs	<u>3,107</u>
TOTAL	17,333

**III. CONTRACT DATA:**

PROGRAM	PRIME	CONTRACT	HARDWARE	CONTRACT		
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN	various	PO	1	8,713	JAN 04

**IV. DELIVERY DATA:**

EARLIEST SHIP	MONTHS REQUIRED	PRODUCTION	REQUIRED
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
MAR 08	TBD	6mo	TBD

SHIPBUILDING AND CONVERSION, NAVY  
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(\$000)

Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: High Frequency Radio Group (HFRG)  
Parm Code - PMW 179

P-35 EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

Provides broadband High Frequency Radio Frequency capability for transmit (2-30MHz) and receive (10KHz-30MHz).

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	5,217
2. Tech Data/Documentation	36
3. Tech Engineering Services	139
4. Other Costs	148
TOTAL	<u>5,540</u>

III. CONTRACT DATA:

PROGRAM	PRIME	CONTRACT	HARDWARE	CONTRACT		
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN	Harris	PO	1	5,217	JAN 04

IV. DELIVERY DATA:

EARLIEST SHIP	MONTHS REQUIRED	PRODUCTION	REQUIRED
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
MAR 08	TBD	TBD	TBD



SHIPBUILDING AND CONVERSION, NAVY  
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(\$000)

P-35 EXHIBIT  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: MK 12 IFF  
Parm Code - NAVAIR PMA 213

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: The Interrogator System AN/UPX-29(V) is deployed on high capability, state of the art platforms that require Identification Friend or Foe (IFF) operational performance beyond that provided by a standard MK XII system for combat identification. The Transponder Set receives interrogation signals from air, surface and land IFF-equipped units and automatically replies with a coded response signal that provides ownship position and identification.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware & Spares	3,616
2. Spares	584
3. Tech Data/Documentation	120
4. Tech Engineering Services	690
3. Engineering Support	<u>1,015</u>
TOTAL	6,025

III. CONTRACT DATA:

<u>PROGRAM YEAR</u>	<u>SHIPTYPE</u>	<u>PRIME CONTRACTOR</u>	<u>CONTRACT TYPE</u>	<u>NEW CONTRACT OPTION</u>	<u>QTY</u>	<u>HARDWARE UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN	Litton - UPX-24/ Bae Sys. OE-120	SS-FFP	New	1	3,616	Sep-03

IV. DELIVERY DATE:

<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME</u>	<u>REQUIRED AWARD DATE</u>
MAR 08	TBD	25 Mos.	Sep-03

V. COMPETITION/SECOND SOURCE INITIATIVE

None

SHIPBUILDING AND CONVERSION, NAVY  
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(\$000)

P-35 EXHIBIT  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: ISNS  
Parm Code - PMW 165

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The ISNS is a part of the C4I Afloat Networks which provides network connectivity to the desktop for classified, unclassified coalition, and SCI applications.

II. CURRENT FUNDING:

P-35 Category

FY 2001

1. Major Hardware	7,236
2. Spares	282
3. Tech Data/Documentation	122
4. Tech Engineering Services	773
4. Other Costs	<u>2,820</u>
TOTAL	11,233

III. CONTRACT DATA:

PROGRAM YEAR	PRIME SHIP TYPE	CONTRACTOR CONTRACTOR	CONTRACT TYPE	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY 01	CVN	Various	PO	1	7,236	JAN 04

IV. DELIVERY DATA:

EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
MAR 08	TBD	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

P-35 EXHIBIT  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: Ships Signal Exploitation Equipment (SSEE) Increment E (AN/SRQ-6(V))  
Parm Code - PMW 189

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The SSEE system provides cryptologic signal acquisition, recognition and analysis. Provides interfaces to CDL, ADNS and GCCS-M

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	2,100
2. Spares	270
3. Tech Engineering Services	0
4. Other Costs	<u>2,747</u>
TOTAL	5,117

III. CONTRACT DATA:

PROGRAM	PRIME	CONTRACT	HARDWARE	CONTRACT		
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN	NAWC AD	PO	1	2,100	JAN 04
		St. Indigoes				

IV. DELIVERY DATA:

<u>EARLIEST SHIP</u>	<u>MONTHS REQUIRED</u>	<u>PRODUCTION</u>	<u>REQUIRED</u>
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
MAR 08	TBD	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: Radio Room Automation  
Parm Code - PMW 179

P-35 EXHIBIT  
FY2005 President's  
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February 2004

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: RRA integrates communications apertures and C4I systems within the CVN 77 Radio Room to enable an automated full service integrated network. Benefits of this transitional technology will result in reduced manning, implementation of FORCEnet functionality, increased information bandwidth, increased effectiveness and efficiency through technology insertion and automation, and reduced electrical power, weight, and cooling requirements.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	142
2. Spares	15
3. Tech Data/Documentation	86
3. Tech Engineering Services	1,396
4. Other Costs	<u>13,561</u>
TOTAL	15,200

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
		Lockheed				
FY 01	CVN	Martin	TBD	1	142	JAN 04

IV. DELIVERY DATA:

<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE DELIVERY</u>	<u>PRODUCTION LEAD TIME</u>	<u>REQUIRED AWARD DATE</u>
MAR 08	TBD	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

P-35 EXHIBIT  
FY2005 President's  
Budget Estimates  
February 2004

Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: AN/SLQ-32(V)4  
Parm Code - PEO IWS4

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The SLQ-32(V)4 provides operational capability for early warning of threat weapon system emitters and emitters associated with targeting platform, threat information to own ship hard-kill weapons, automatic dispensing of chaff decoys, and Electronic Attack (EA) to alter specific and generic ASCM trajectories.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	4,981
2. Spares	60
3. Tech Data/Documentation	80
4. Tech Engineering Services	460
4. Other Costs	<u>1,277</u>
TOTAL	6,858

III. CONTRACT DATA:

PROGRAM	PRIME	CONTRACT	HARDWARE	CONTRACT		
<u>YEAR</u>	<u>SHIP TYPE</u>	<u>CONTRACTOR</u>	<u>TYPE</u>	<u>QTY</u>	<u>UNIT COST</u>	<u>AWARD DATE</u>
FY 01	CVN	NSWC Crane	PO	1	4,981	JAN 04

IV. DELIVERY DATA:

EARLIEST SHIP	MONTHS REQUIRED	PRODUCTION	REQUIRED
<u>DELIVERY DATE</u>	<u>BEFORE DELIVERY</u>	<u>LEAD TIME</u>	<u>AWARD DATE</u>
MAR 08	TBD	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

P-35 EXHIBIT  
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Budget Estimates  
February 2004

Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: ILS (AN/SPN-41) Instrument Landing System  
Parm Code - PMA 213

I. DESCRIPTION/CHARACTERISTICS/PURPOSE:

The (AN/SPN-41) Instrument Landing System provides aircraft landing on an aircraft carrier with an electronic aid to guide the aircraft's approach to and landing on the flight deck

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	2,407
2. System Engineering	780
3. Tech Engineering Services	183
4. Other Costs	<u>0</u>
TOTAL	3,370

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY 01	CVN	NAWC AD St. Indigoes	PO	1	2,407	JAN 04

IV. DELIVERY DATA:

EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
MAR 08	TBD	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

P-35 EXHIBIT  
FY2005 President's  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Line: Automated Carrier Landing Systems (ACLS) (AN/SPN-46 (V)3)  
Parm Code - NAVAIR PMA 213

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: Precision Landing System used for non-clear weather aircraft landings on board CVs.

II. CURRENT FUNDING:

P-35 Category	<u>FY 2001</u>
1. Major Hardware	5,497
2. Systems Engineering	957
3. Technical Engineering Services	323
4. Other Costs	<u>2,017</u>
TOTAL	8,794

III. CONTRACT DATA:

PROGRAM YEAR	SHIP TYPE	PRIME CONTRACTOR	CONTRACT TYPE	QTY	HARDWARE UNIT COST	CONTRACT AWARD DATE
FY 01	CVN	British Aerospace Sierra Nevada	FFP	1	5,497	Jan-03

IV. DELIVERY DATA:

EARLIEST SHIP DELIVERY DATE	MONTHS REQUIRED BEFORE DELIVERY	PRODUCTION LEAD TIME	REQUIRED AWARD DATE
MAR 08	TBD	TBD	TBD

SHIPBUILDING AND CONVERSION, NAVY  
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(\$000)

P-35 EXHIBIT  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Item: Ship Self Defense System (MK2) (Previously ICDS)  
PARM Code - PEO IWS1C

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: SSDS MK2 provides primary support for force/ownership combat systems control and enhanced self-defense capabilities. The SSDS MK2 integrates sensors, weapons systems, data links, and command and control elements into a unified combat system.

II. CURRENT FUNDING:

P-35 Category

FY 2001

1. Major Hardware & Spares	16,944
2. Spares	1,269
3. Tech Engineering Services	5,472
3. Other Costs	<u>27,903</u>
TOTAL	51,588

III. CONTRACT DATA

<u>PROGRAM</u> <u>YEAR</u>	<u>SHIP TYPE</u>	<u>PRIME</u> <u>CONTRACTOR</u>	<u>CONTRACT</u> <u>TYPE</u>	<u>NEW CONTRACT</u> <u>/OPTION</u>	<u>QTY</u>	<u>HARDWARE</u> <u>UNIT COST</u>	<u>AWARD</u> <u>DATE</u>
FY 01	CVN	Raytheon & Lockheed Martin	FFP	N00024-03-C-5127	1	16,944	Jul-03

IV. DELIVERY DATA:

<u>EARLIEST SHIP</u> <u>DELIVERY DATE</u>	<u>MONTHS REQUIRED</u> <u>BEFORE SHIP DELIVERY</u>	<u>PRODUCTION</u> <u>LEADTIME</u>	<u>REQUIRED</u> <u>AWARD DATE</u>
MAR 08	40	18 Months	Jul-03

V. Competition/Second Source Initiatives

None



SHIPBUILDING AND CONVERSION, NAVY  
MAJOR SHIP COMPONENT FACT SHEET  
(\$000)

P-35 EXHIBIT  
FY2005 President's  
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Ship Type: CVN 77 CARRIER REPLACEMENT PROGRAM  
Equipment Item: Turnkey RCS  
PARM Code - PMW 05

I. DESCRIPTION/CHARACTERISTICS/PURPOSE: Turnkey for CVN 77 includes the integration of SPAWAR Radio Communication Systems (RCS) at the SPAWAR System Center Charleston Test and Integration Facility. SSC Charleston will provide program planning, management and technical services, and detailed C4I ship design and integration. The RCS will under total integration and testing prior to delivery to the shipbuilder.

II. CURRENT FUNDING:

P-35 Category

FY 2001

1. Major Hardware & Spares	2,000
2 Tech Data/Documentation	200
3. Tech Engineering Services	11,207
3. Other Costs	<u>9,875</u>

TOTAL	23,282
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III. CONTRACT DATA

PROGRAM <u>YEAR</u>	SHIP TYPE <u>SHIP TYPE</u>	PRIME <u>CONTRACTOR</u>	CONTRACT <u>TYPE</u>	NEW CONTRACT <u>/OPTION</u>	<u>QTY</u>	HARDWARE <u>UNIT COST</u>	AWARD <u>DATE</u>
FY 01	CVN	TBD	TBD	TBD	1	2,000	TBD

IV. DELIVERY DATA:

<u>EARLIEST SHIP DELIVERY DATE</u>	<u>MONTHS REQUIRED BEFORE SHIP DELIVERY</u>	<u>PRODUCTION LEADTIME</u>	<u>REQUIRED AWARD DATE</u>
MAR 08	TBD	TBD	TBD

V. Competition/Second Source Initiatives

None